

wherein C is S;

Z is CH₂ or S;

R₃ is 2-phenylpropyl or 3-phenylpropyl; and

R₄ is 1,1-Dimethylpropyl,

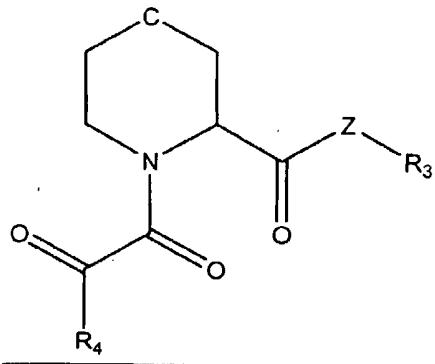
having an affinity for FKBP-type immunophilin; and

(ii) a pharmaceutically acceptable carrier.

87. (Previously Presented) The pharmaceutical composition of claim 86, wherein the FKBP-type immunophilin is FKBP-12.

of promoting neuronal growth and regeneration

88. (Currently Amended) A method for effecting a neuronal activity, comprising administering to an animal in need thereof a therapeutically effective amount of a neurotrophic, low molecular weight, small molecule N-glyoxyl heterocyclic ketone or thioester compound of the formula



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growth

89. (Currently amended). The method of claim 88, wherein the neuronal ~~activity~~
is stimulation of damaged neurons, promotion of neuronal regeneration, ~~prevention of~~
~~neurodegeneration~~, or treatment of a neurological disorder.

90. (Previously Presented) The method of claim 89, wherein the neurological
disorder is peripheral neuropathy caused by physical injury or disease state, traumatic injury
to the brain, physical damage to the spinal cord, stroke associated with brain damage, or
neurological disorder relating to neurodegeneration.

91. (Previously Presented) The method of claim 90, wherein the neurological
disorder relating to neurodegeneration is Alzheimer's disease, Huntington's disease,
Parkinson's disease or amyotrophic lateral sclerosis.

92. (Previously Presented) The method of claim 88, wherein the FKBP-type
immunophilin is FKBP-12.